

# Hassan Raza

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## SUMMARY

Senior Software Engineer with full-stack expertise and a strong consulting mindset, experienced in architecting and delivering scalable, cloud-native solutions. Proven in leading Agile teams, driving key technical decisions, and collaborating with stakeholders to build high-impact, user-centric products. Passionate about leveraging modern technologies, including AI, to drive innovation and business transformation.

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## EXPERIENCE

### Senior Software Engineer

**Tenderd Track DMCC - Tenderd is an AI-Powered Fleet and Equipment Management Software**

**April 2024 - April 2026  
, United Arab Emirates**

- Collaborated with cross-functional teams during sprint ceremonies to define development priorities, manage task assignments, and ensure transparent communication using JIRA.
- Facilitated backlog grooming and sprint planning sessions to prioritize tasks, monitor progress, and support timely project delivery.
- Engineered robust event-driven architecture by integrating Apache Kafka, enhancing the platform's ability to ingest and process telemetry data streams from multiple third-party microservices.
- Refined real-time data pipelines by leveraging Apache Kafka and AWS Lambda, achieving a 55% increase in message throughput and reducing average processing latency by 30% across equipment telemetry ingestion workflows.

### Senior Software Engineer

**Clozer.io**

**January 2023 - March 2024, Dubai, United Arab Emirates**

Sell experiences & run gamified giveaways to grow your music streams

- Led development for realtime analytics module to track for more than 20 user activity based events.
- Originate system to schedule saving future music releases.
- Optimized the integration process with eight third-party music platforms through asynchronous requests and robust error handling in Golang, improving reliability of music URL retrieval.
- Directed frontend development efforts, applying React.js and TypeScript to enforce consistent application architecture and support scalability throughout all project stages.
- Revamped authentication flow resolved 10+ critical bugs.
- Engineered scalable APIs using Node.js, Express, and MongoDB over 18 months to support 500k+ daily requests, reducing latency by 35% and elevating uptime to 99.98% across music distribution projects.

### Software Consultant

**Independent Consultancy and Contracts**

**January 2023 - September 2023, Remote**

- Consulted with various software businesses across the Middle East and the USA.
- Led the development of the entire product infrastructure and architecture, encompassing mobile, web, admin, backend, and CRM integrations for the "Send me a trainer / Send me a Pro" project.
- Implemented new features, redesigned databases, developed user experiences, and managed project timelines, resulting in a 20% increase in user satisfaction.
- Collaborated with clients to enhance the frontend of the GPS Dataviz project, introducing simplified features and improving user experience, leading to a 15% increase in user engagement.
- Redefined the backend application architecture for the Skip the Call project, focusing on new database designs and code infrastructure, resulting in a 30% improvement in system performance.

### Software Engineer

**Corel Corporation - A specialized graphics processing company**

**August 2022 - December 2022, Ontario, Remote**

- Spearheaded a new project targeting casual designers, orchestrating successful teamwork and project initiation.
- Led the creation of a web-based frontend using React.js and TypeScript, from design inception to implementation.
- Enhanced graphics engine efficiency through targeted fixes and optimizations, resulting in performance gains.
- Designed and implemented Invoice PDF generation, setting the groundwork for an upcoming Subscription Feature.
- Improved existing features for Corel Vector products, resolving 15+ bugs and conducting comprehensive testing, resulting in a 30% decrease in bug reports from users.

### Software Engineer

**Bykea**

**December 2020 - March 2022, Karachi, Pakistan**

- Led and managed cross-functional teams, overseeing sprints, deliverables, and sprint planning, while also estimating project timelines. Completed 10+ sprints on schedule, with a 95% on-time delivery rate.

- Engineered a robust support system for the CSR department, utilizing TypeScript, Nestjs, Reactjs, AWS DocumentDB, and Redis cache. Managed staging environments for QA on Linux servers.
- Integrated Kafka to replace Rabbitmq within internal services for streamlined event sourcing, resulting in nearly 0% data loss.
- Revamped and optimized back office and support system portal, enhancing server efficiency and overall performance. Achieved 100% uptime.
- Collaborated in the successful launch of a supermarket feature, contributing to enhanced user experiences.
- Resolved live issues related to Queues, addressing TTL & delay concerns, providing support to the head of engineering.
- Efficiently optimized Redis cache usage by eliminating redundant keys, resulting in a nearly 50% reduction in cache size.
- Orchestrated database migrations and facilitated the deployment of microservices on staging servers.

## Full Stack (Backend) Engineer

Expando.com.pk

June 2019 - December 2020, Karachi, Pakistan

- Oversaw database migrations and managed cron jobs, ensuring seamless data management and task scheduling.
- Upgraded and managed a web annotator tool built with Vue.js and Node.js, enhancing its functionality and user experience.
- Spearheaded the development of the backend for a Ridesharing app and the frontend of an admin portal.
- Implemented live location sharing using SSE, enhancing real-time communication and tracking capabilities.
- Led the creation of video calling and chat applications, integrating HTML canvas for interactive drawing features.
- Engineered AWS Lambda functions to initiate EC2 Instances via API calls, streamlining server management and scaling.

## Junior Full Stack Developer

Panacloud

January 2018 - February 2019, Karachi, Pakistan

- Enthusiastically acquired skills in constructing efficient web applications with streamlined code and user-friendly functionalities.
- Dived into React Native for mobile app development and honed expertise in Nestjs for backend solutions.

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## EDUCATION

### Bachelor of Science in Computer Science

Minor in Cloud Computing and Artificial Intelligence • University of Karachi • Karachi, Pakistan • 2020 • 2.89

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## CERTIFICATIONS

### Problem Solving Certificate

HackerRank • 2022

### Data Science Methodolgy

IBM (Cognitive Class) • 2020

### Introduction to Data Science

IBM (Cognitive Class) • 2020

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## INVOLVEMENT

### Lab Assistant

Saylani Mass IT • Saylani Welfare International Trust • March 2018 - June 2023

- Conducted 4 months of hands-on training sessions for students, focusing on JavaScript basics and React fundamentals.
- Assisted the teacher in explaining theoretical concepts during lab practicals, ensuring students understood the material effectively.
- Provided personalized guidance to over 50+ students during lab sessions, addressing individual questions and concerns related to JavaScript and React.

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## SKILLS

Language: TypeScript, JavaScript, Golang, Python

Frontend: ReactJs, NextJs, SSR, React Native, Redux, GraphQL, Mobx, TailwindCSS, Storybook, MUI, AntD, SemanticUI, Webpack, Babel, Vite, Vercel.

Backend: Nodejs, Nestjs, Expressjs, Fastify, Adonisjs, Golang, Microservices, Rest API, GraphQL, Webhooks, FastAPI, Swagger, Schedulers, clustering, PM2.

Database: PostgreSQL, MongoDB, SQL, DynamoDB, Firebase Firestore/Realtime, Redis, ElasticSearch.

AI Tools: Claude, Copilot, Cursor, n8n.

Testing: Jest, Chai, Mocha, Unit testing, e2e testing, integration testing.

Cloud: GCP, AWS, EC2, Lambda, S3, Cognito, Appsync, IAM, Dynamo DB, API GATEWAY, CloudFront, AWS Amplify, Docker, Linux

Routing: HTTP, GRPC, SSE, Sockets, RabbitMQ, Kafka, AWS SQS

